

Supporting Your Child in Developing Math Skills For Future Success

Math success opens doors to college and careers.

The technical and professional jobs of the future demand more mathematical knowledge and problem solving skills.



Children who believe they can be successful in math are more willing to put in effort, even when they struggle, and this results in better performance.ⁱ

Success in elementary school math predicts future achievement in middle and high school math and other subjects.^{ii, iii}

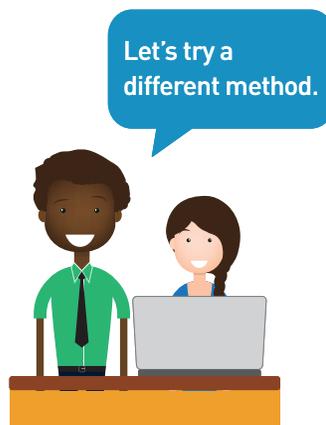
Students who complete higher-level math in high school earn higher incomes in the future.^{iv}

The number of STEM (science, technology, engineering, and mathematics) jobs is growing and half of all STEM jobs are available to workers without a four-year college degree. STEM jobs pay 10% more than other jobs available to these workers.^v

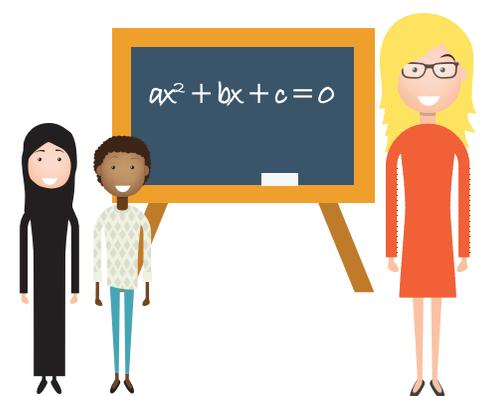
Families can support children in developing math skills for the future by^{iv}:



praising effort and modeling positive math attitudes.



encouraging children to seek help and try new strategies when they are stuck.



confronting stereotypes about who is good at math.



i Boaler, J. (2015). *Mathematical mindsets: Unleashing students' potential through creative math, inspiring messages and innovative teaching*. San Francisco, CA: John Wiley & Sons.

ii Claessens, A., & Engel, M. (2013). How important is where you start? Early mathematics knowledge and later school success. *Teachers College Record*, 115(6), 1–29. <http://eric.ed.gov/?id=EJ1020177>

iii Siegler, R. S., Duncan, G. J., Davis-Kean, P. E., Duckworth, K., Claessens, A., Engel, M., ... & Chen, M. (2012). Early predictors of high school mathematics achievement. *Psychological Science*, 23(7), 691–697.

iv Achieve, Inc. (2006). *Closing the expectations gap: An annual 50-state progress report on the alignment of high school policies with the demands of college and work*. Washington, DC: Author.

v Rothwell, J. (2013). *The Hidden STEM Economy*. Brookings Institution: Washington, DC.

iv Epstein, J.L. (2001). *School, family, and community partnerships* (1st ed.). Boulder, CO: Westview Press.